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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/393,126	09/10/1999	ROBERTO AIELLO	FANT-99-002	2279

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EXAMINER

ABELSON, RONALD B

ART UNIT	PAPER NUMBER
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2666

DATE MAILED: 04/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/393,126

Applicant(s)

AIELLO ET AL.

Examiner

Ronald Abelson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 March 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 51-143 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 51-103 and 106-140 is/are allowed.
- 6) ☒ Claim(s) 104, 105 and 141-143 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 9/10/1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

Claim Rejections - 35 USC § 102

1. Claims 104 and 105 are rejected under 35 U.S.C. 102(e) as being anticipated by Callaway.

Regarding claims 104 and 105, Callaway teaches a method and apparatus for an ultra-wideband 'UWB' wireless communication network (fig. 2) comprising at least three transceivers (fig. 2 boxes 2, 9-11), each transceiver having a transmitter and a receiver, one of the transceivers being structured and configured as a master device (fig. 2 box 2), the master device structured and configured to manage data transmission between the master device and the at least two other transceivers (col. 3 lines 14-16) and direct data transmission between the at least two other transceivers (col. 3 lines 2-5, 9-10), wherein the transceivers are structured and configured to transfer data to other transceivers isochronously (fig. 2: see two way communication between transceivers).

Regarding claim 104, in addition to the limitations previously listed, the transmitters are structured and configured to emit radio frequency pulses (compatible with Bluetooth 1.0, col. 4 lines 19-20).

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Claim Rejections - 35 USC § 103

2. Claims 141-143 are rejected under 35 U.S.C. 103(a) as being unpatentable over Callaway in view of applicant's admitted prior art 'AAPA'.

Regarding claims 141, and 143, Callaway teaches a method and apparatus for an ultra-wideband 'UWB' wireless communication network (fig. 2) comprising at least three transceivers (fig. 2 boxes 2, 9-11), each transceiver having a transmitter and a receiver, one of the transceivers being structured and configured as a master device (fig. 2 box 2), the master device structured and configured to manage data transmission between the master device and the at least two other transceivers (col. 3 lines 14-16) and direct data transmission between the at least two other transceivers (col. 3 lines 2-5, 9-10), wherein the transceivers are structured and configured to transfer data to other transceivers isochronously (fig. 2: see two way communication between transceivers).

Although Callaway teaches being compatible with Bluetooth 1.0 (col. 4 lines 19-20) the inventor is silent on the slave device comprises a master devices both contain clocks, each of the local clocks is synchronized with the master clock.

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AAPA teaches the slave device comprises a master devices both contain clocks, each of the local clocks is synchronized with the master clock (pg. 8 lines 2-5).

Therefore it would have been obvious to one of ordinary skill in the art, having both Callaway and AAPA before him/her and with the teachings [a] as shown by Callaway, an ultra-wideband 'UWB' wireless communication network comprising at least three transceivers, each transceiver having a transmitter and a receiver, one of the transceivers being structured and configured as a master device, the master device structured and configured to manage data transmission between the master device and the at least two other transceivers and direct data transmission between the at least two other transceivers, wherein the transceivers are structured and configured to transfer data to other transceivers isochronously, and [b] as shown by AAPA, the slave device comprises a master devices both contain clocks, each of the local clocks is synchronized with the master clock, to be motivated to modify the system of Callaway by placing clocks at each of the transceivers that operate in accordance with Bluetooth. This would improve the system by making it compatible with Bluetooth as intended by Callaway.

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Regarding claim 141, in addition to the limitations previously listed, the transmitters are structured and configured to emit radio frequency pulses (compatible with Bluetooth 1.0, col. 4 lines 19-20).

Regarding claim 142, the transceivers are structured and configured to transfer data to other transceivers isochronously (fig. 2 see two-way links between transceivers).

Allowable Subject Matter

3. Claims 51-103, and 106-140 are allowed.
4. The following is a statement of reasons for the indication of allowable subject matter.

Regarding claims 51 and 93, nothing in the prior art of the record teaches or fairly suggests a Medium Access Control hardware interface comprising a multiplexer/demultiplexer unit and a plurality of slot allocation units, in combination with the other limitations listed in the claim.

Regarding claims 106, 135, 138, and 139, nothing in the prior art of the record teaches or fairly suggests a

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protocol structured to operate in the aloha mode and TDMA mode, in combination with the other limitations listed in the claim.

Regarding claims 110, 113, 118, 121, 128, 130, 133, and 136, nothing in the prior art of the record teaches or fairly suggests each transceiver comprises a framing controller, the controller having means for generating and maintaining time frame information for the network system, in combination with the other limitations listed in the claim.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Abelson whose telephone number is (703) 306-5622. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (703) 308-5463. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9600.

Ronald Abelson
Examiner
Art Unit 2666

April 10, 2003



DANG TON
PRIMARY EXAMINER